

### Amendments to the claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

### Listing of claims

1. (Currently amended) A production method for 3,3'-diallyl-4,4'-dihydroxydiphenyl sulfone characterized by subjecting 4,4'-diallyloxydiphenyl sulfone to a rearrangement reaction under microwave irradiation in the presence of a chelate agent.
2. - 8. (Cancelled)
9. (Currently Amended) The production method for 3,3'-diallyl- 4,4'-dihydroxydiphenyl sulfone according to claim & 1, characterized in that said chelate agent is ethylenediamine tetraacetic acid or a chelate agent comprising a fused ring containing a nitrogen-containing aromatic ring.
10. (Original) The production method for 3,3'-diallyl-4,4'-dihydroxydiphenyl sulfone according to claim 9, characterized in that the chelate agent containing a fused ring is phenanthroline.

11. (Currently amended) A production method for 3,3'-diallyl-4,4'-dihydroxydiphenyl sulfone according to claim 1, 9 or 10, characterized by subjecting 4,4'-diallyloxydiphenyl sulfone to a rearrangement reaction under microwave irradiation at 230 to 300°C ~~300°C~~ ~~in the presence of a basic substance or a chelate agent.~~